

Date: Thu, 14 Jan 93 09:35:22 PST  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V93 #59  
To: Info-Hams

Info-Hams Digest                      Thu, 14 Jan 93                      Volume 93 : Issue    59

Today's Topics:

Anybody want to talk about Clover?  
Any comments about "Public" Field Day locations  
Beginner's Rig  
Boatanchors of old  
Converting Taxi radio to 70cm  
Desense, nonsense, and filter design  
Has IC-735 been modified in time?  
Iraq monitoring  
KENWOOD TR-7600 PROBLEM  
Logging software  
Meaning of <SK> etc. for CW  
New HAM needs HT help/FAQs.  
PC repeater controller  
STS-54 Element Set (013.88)  
Yesu FT-625 CTCSS Info.

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: 14 Jan 93 16:24:25 GMT  
From: decctl!news.crl.dec.com!dbased.nuo.dec.com!nntpd.lkg.dec.com!  
ryn.mro4.dec.com!cimfie.enet.dec.com!taber@decwrl.dec.com  
Subject: Anybody want to talk about Clover?  
To: info-hams@ucsd.edu

In article <C0sxyF.9F2@srngenprp.sr.hp.com>, glenne@sr.hp.com (Glenn Elmore)  
writes...

>  
> I've come to the conclusion that ham's are a pretty hard-to-please  
>bunch. If you work really hard and come up with a better design,  
>implement it, publish it, spend all your resources developing it and  
>then by some stroke of luck are still able to present it to the masses  
>via a major distribution channel on a silver platter, then some  
>people will buy it and still complain that it's not polished enough or  
>that you are getting rich from them.... but they'll use it.  
>

I don't know that they're harder to please than any other collection of people that size who are into some special-interest hobby. In the commercial world, you get a class of client who is used paying for what they get, who can estimate accurately how much it would cost to develop something themselves and who can draw satisfaction from the fact that what they buy will (should?) will make or save them money.

J. Random ham doesn't have the mind set or in some cases the skill set for accurate make/buy analysis. Even if the thing they buy is the most wonderful expression of whatever-the-heck-it-is, it's not going to make them money or even pay for itself -- it's just a drain on their "ham allowance" which, I think we all know, is finite and always too small.

You can't make someone happy unless they're getting something of value in exchange for their money. There are a small number of people who are into any given mode enough that they will benefit by and appreciate something that makes the mode more enjoyable. But I believe that a greater number of people are searching for the Hamly Grail. They're looking for The Thing that will provide them with a short-cut to happiness. How can you expect to make them happy?

>>>==>PStJTT

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Date: 14 Jan 93 15:17:48 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: Any comments about "Public" Field Day locations  
To: info-hams@ucsd.edu

>Last year, when the Titusville club tried to make the same arrangements for  
>the stadium, they ran into a new problem: a requirement for expensive  
>liability insurance. As an alternative, they contacted a local indoor  
>shopping mall, and found the management very receptive. It happened that  
>there was no other activity scheduled for that weekend, so the hams were  
>the "main attraction".

fred -- Melbourne Square has a similar liability requirement that's pretty

high (i don't recall the exact number, but it's high enough mere mortals can't get in). Probably could get into Brevard Mall but since the "anchors" don't even open into the mall, i suspect the traffic would be really low..8)

(FIT Hamfest this weekend 1/16/93 at Country Club Road parking lot. \$1 adm.)

73, bill

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Date: 14 Jan 93 13:15:59 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: Beginner's Rig  
To: info-hams@ucsd.edu

References <#-41H1euzb@atlantis.psu.edu>, <root.726881171@qwerty-gw>,  
<1993Jan13.221026.7540@ncsu.edu>iel.  
then Kevin Dunphy in  
<usc!news.bbn.com!olivea!spool.mu.edu!caen!uvaarpa!concert!rock!taco!  
garfield.catt.ncsu.edu!kevind@network.UCSD.EDU >  
Writes:

> What recommendations do you have for a newbie looking for some  
> gear? I just passed the no-code tech tests this weekend, and  
> would like to gain some net-wisdom before I sink mucho bucks into  
> less-than-deserving hardware.  
I'd guess the number of opinions on specific rigs and hand-helds vs.  
"real" rigs will approximate the number of readers. I'll skip that and  
cut to some operating advice \*if\* you go H/T, especially since...

> My personal intention is to get a handheld to work the 2-meter  
> repeaters in town (and out!).

DO:

get a good EXTERNAL antenna for your vehicle. The inside of a motor  
vehicle (non rag-top) makes for an excellent faraday shield, and I am  
tired of new people who are not told about this (in class or where they  
acquire the H/T), who then try to work repeaters and autopatches from the  
fringes. The window openings are less than one wavelength, and quite  
successfully trap the RF \*inside\* the car, rendering a 5 watt H/T  
useless for much but warming the head.

As you get further from the repeaters with your H/T, consider an  
amplifier (combo with a power supply/battery charger?) to get 25 watts  
or so to your roof mounted antenna.

It is hard to make new friends on the radio when you are picket-fencing  
and barely readable...all the moreso when those conditions are avoidable.

> What does one look for in a handheld?

My IC-2AT is about 13 years old and has had a couple new battery packs. It has no frills and no fancy bells and whistles, which probably explains why it still works well and gives good service after 13 years! I think I have tapped nails back into my shoes with it and still it works. Initially, I'd opt for simple durable equipment to start, and upgrade to more complex as you learn better your own personal preferences for look, feel, and features.

> What does one look for in USED equipment?

An honest (sic) ham as the seller ;^)

> Will I regret settling for a single-bander two weeks after

> I get on the air?

Only you can answer that, Kevin. Features = \$\$\$\$ = failure potential  
Buy what you need, and trade up when your needs change.

> Do I really need 1500 watts in a handheld?

Only if you live in Houston (home of the Texas Repeater King) or California, or need to have hot coffee on the way to work ;^)

```
-----  
| Jack GF Hill      Voice: (615)459-2636   root@jackatak.raidernet.com |  
| P. O. Box 1685    modem: (615)377-5980   Compu$erve 76427,31 |  
| Brentwood, TN 37024   Bicycling and SCUBA Diving   Ham Call: W4PPT |  
+-----+
```

-----  
Date: Thu, 14 Jan 1993 14:51:06 GMT

From: decctl!news.crl.dec.com!dbased.nuo.dec.com!e2big.mko.dec.com!

decabo.abo.dec.com!anarky.enet.dec.com!brewer@decwrl.dec.com

Subject: Boatanchors of old

To: info-hams@ucsd.edu

In article <1993Jan13.150111.9612@crd.ge.com>, mallick@crd.ge.com (John Mallick) writes...

>In article <1993Jan13.002930.19534@odin.corp.sgi.com>, adams@chuck.dallas.sgi.com (Charles Adams) writes:

>

>I have got my old Johnson Ranger I running again, and am currently trying to get an old

>National NC-240D up an running as the receiver. Going QSK using an old Johnson T/R

>switch. I don't think my card table is going to handle it.

Let me know if you have questions on the Ranger. I have three of them restored now!

/john

```
-----  
| John Brewer | Internet: brewer@anarky.enet.dec.com |  
| wb5oau      | Packet   | wb5oau@wb2ars      |  
-----
```

-----  
Date: 14 Jan 93 14:05:58 GMT  
From: pipex!warwick!uknet!cam-eng!cmh@uunet.uu.net  
Subject: Converting Taxi radio to 70cm  
To: info-hams@ucsd.edu

Hello All,

I don't know if this is the correct place to post this, but here goes...

A friend of mine has just bought a taxi radio for his son (age 12), who has just got his amateur radio licence. He was told it could be modified for 70cm amateur band, and I see no reason why not.

Everyone he asks says "Yeah, all you do is change the crystals", but can offer no advice as to what is actually required. There are six main crystals in there, all with 466.XYZ MHz on them (where XYZ are 3 numbers I can't remeber...).

So, a couple of questions:

- i) What frequency should these crystals be for 70cm amateur band operation?
- ii) Are any other mods likely to be necessary?
- iii) Are there any good introductory books to the technical aspects of amateur radio (readable by a bright 12 year old) ?

Many thanks in advance

Christopher Hicks

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Christopher Hicks		If it doesn't fit...
cmh@uk.ac.cam.eng		...you need a bigger hammer.

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=====
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-----  
Date: Thu, 14 Jan 1993 12:42:14 GMT  
From: decctl!news.crl.dec.com!dbased.nuo.dec.com!nntpd.lkg.dec.com!

nntpd2.cxo.dec.com!nuts2u.enet.dec.com!little@decwrl.dec.com  
Subject: Desense, nonsense, and filter design  
To: info-hams@ucsd.edu

>>..Couple of posts regarding details of quarter wave stub deleted..  
>  
>[Beaucoups of wonderful theory and discussion of filters deleted...]  
>--and, why delete that?  
>  
>Because, gentlepeople, the original question had to do with eliminating  
>an interfering 144Mhz signal from a TV. Now, I just betcha the TV  
>operates on Cable, and the offensive interference is at its \*very\* worst

What are you talking about? The original post had to do with someone  
connecting a discone antenna to a couple of scanners and having a nearby  
FM broadcast station desensing the front-end. Whatever does that have to  
do with Channel E, etc.?

73,  
Todd  
N9MWB

-----  
Date: Thu, 14 Jan 1993 15:53:22 GMT  
From: sdd.hp.com!ux1.cso.uiuc.edu!news.cso.uiuc.edu!meishan.animal.uiuc.edu!  
ignacij@network.UCSD.EDU  
Subject: Has IC-735 been modified in time?  
To: info-hams@ucsd.edu

I have purchased one of the first IC 735 in 1985. It still works well  
although there were problems:

1. Signals within 0.1-7.999 MHZ became unstable. This was traced to a faulty  
variable capacitor in one VCO.
2. One bar in the LCD display disappears after the rig warms up.

Other problems (features) are:

3. Mediocre sensitivity (important with short antennas); with preamp on it  
is like with preamp off in other rigs (e.g., IC 745 or 751).
4. Notch filter is too wide and useful on AM only.
5. One could hear the PLL noise, especially on 40m.

While I still think that IC-735 was a good buy, I am wondering if there  
were any improvements done to this model after 1985.

Ignacy Misztal, N09E, ignacy@uiuc.edu

-----  
Date: 14 Jan 1993 13:37:12 GMT  
From: dog.ee.lbl.gov!overload.lbl.gov!agate!usenet.ins.cwru.edu!  
cleveland.Freenet.Edu!ah595@network.UCSD.EDU  
Subject: Iraq monitoring  
To: info-hams@ucsd.edu

Would it be possible to monitor the recent happenings  
in Iraq? I mean such things as aircraft and such. What would  
be the best monitor for this? Right now I have the RS PRO-43  
but am looking for something that can receive more frequencies.

Thanks,  
Eric

-----  
Date: 14 Jan 93 12:33:00 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: KENWOOD TR-7600 PROBLEM  
To: info-hams@ucsd.edu

I need some assistance with a very perplexing problem.

I have a Kenwood TR-7600 2m FM Transceiver that has begun to "lock" and both  
the RX and TX functions cease. This has occurred during transmission and while  
monitoring as well. Sometimes it will "unlock" by just turning it off and on  
again. I have had it serviced twice by an authorized Kenwood dealer/repair.  
They have replaced a capacitor on the PLL board, but the problem still occurs.

Any advice as to what the problem might be and/or possible solutions will be  
greatly appreciated.

73's  
Murrie, KD4TKB

\*\*\*\*\*  
\* "I reached into the sky and found a friend." \*  
\* Robert H. Nesbitt - WA7UVO \*  
\* CQ Magazine - February 1977 \*  
\* \*  
\*\*\*\*\*  
\* L. Murrie Lee KD4TKB \*  
\* Associate Registrar LEELM@VXC.UNCWIL.EDU \*

\* University of North Carolina at Wilmington            Phone: 919-395-3126       \*  
\* 601 South College Road                                FAX: 919-395-3038       \*  
\* Wilmington, North Carolina 28403 U.S.A.               \*  
\*\*\*\*\*

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Date: Thu, 14 Jan 1993 15:38:32 GMT  
From: usc!zaphod.mps.ohio-state.edu!pacific.mps.ohio-state.edu!linac!att!cbnewsi!  
cbnewsh!afy@network.UCSD.EDU  
Subject: Logging software  
To: info-hams@ucsd.edu

-----  
Date: 14 Jan 93 16:28:02 GMT  
From: naucse!nauvax.ucc.nau.edu!cvm@arizona.edu  
Subject: Meaning of <SK> etc. for CW  
To: info-hams@ucsd.edu

I am starting to learn the code so I can upgrade to General. I am using  
Supermorse and listening to some local CW practice on 2m. I want to know what  
are the meanings of:

<AS>  
<AR>  
<KN>  
<SK>  
<BT>

I know some of these were on the Novice written test, but I usually don't  
remember things memorized but not really used.

-----  
Chris Michels -- Systems Programmer                    cvm@nauvax.ucc.nau.edu  
Northern Arizona University -- Flagstaff, AZ        cvm@nauvax.bitnet  
Phone: (602) 523-6495                                N7YIU

-----  
Date: Thu, 14 Jan 1993 15:11:07 GMT  
From: swrinde!cs.utexas.edu!uwm.edu!spool.mu.edu!mixcom.com!  
kevin.jessup@network.UCSD.EDU  
Subject: New HAM needs HT help/FAQs.  
To: info-hams@ucsd.edu



I'm new to HAM radio and need some advice on HTs, repeaters and the like.  
The ARRL book "Now Your Talking" didn't answer these questions for me.

I understand the typical 2 meter and 70 centimeter band HTs come with a stock battery back that will give you a max power output of around 3 Watts.  
I guess if you want more power, you buy a bigger BP or a 12 volt cigar lighter adaptor.

Just how far can I be from the repeater and still get into it with a readable signal when using 2 to 3 Watts? What if I buy the big fat BP option and transmit at 5 Watts?

Also, how will these three different situations affect my range:

- 1.) Outside using the HT with a rubber ducky.
- 2.) In my car but using a gain antenna on the roof.
- 3.) Sitting inside my 2nd story condo with the HT and a rubber duck.

Perhaps this is all in an HT FAQ. If so, could some kind soul please Email me a copy?

Also, If there are any Milwaukee area HAMS reading this, could you tell me how well you get into various repeaters in this area using your HT?

Thanks loads!

--

Kevin Jessup, kevin.jessup@mixcom.mixcom.com

"Friends don't let friends run DOS."

-- Microware

-----  
Date: 14 Jan 93 15:41:09 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: PC repeater controller  
To: info-hams@ucsd.edu

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>  
> Date: 14 Jan 93 04:51:03 GMT  
> From: agate!netsys!ukma!cs.widener.edu!netnews.upenn.edu!eniac.seas.upenn.edu!  
depolo@ames.arpa  
> Subject: PC repeater controller  
> To: info-hams@ucsd.edu

>  
> In article <1ilgetINN6pc@matt.ksu.ksu.edu> steve@matt.ksu.ksu.edu (Steve Schallehn) writes:  
> >phr@telebit.com (Paul Rubin) writes:  
> >  
> >>Why can't someone make a repeater controller out of a simple  
> >>personal computer (286 class), with maybe a relay box controlled...  
>  
> There is such a beast soon to hit the market. It's made by A-to-D (?)  
> technologies.

The A/D Technologies repeater is on the market. It's a little spendy but it is a great(!!) controller. It is used on the N4CL repeater in the north Atlanta area. If you look in the repeater directory, it is listed as Sweat Mountain, 145.47. It is the club repeater for the N. Fulton Amateur Radio Club, in Roswell. I used to belong to that club and just loved the functions available on the repeater.

The principals of A/D Technologies are all hams, members of the N. Fulton club, and are great guys to talk to and work with. They will probably have exhibits in Dayton and Huntsville this year.

If you would like information on the repeater controller you can write:

A/D Technologies  
4688 Jefferson Township Ln.  
Marietta, GA 30066

73s

Stan KC4ZGF

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-----  
| Stanley D. Boyd |  
| Project Manager-CALS Applications |  
| Systems Integration |  
| Intergraph Corporation |  
| Mail Stop GD3005 |  
| Huntsville, AL 35894-0001 |  
| Phone: (205)730-3135 |  
| FAX: (205)730-3301 |  
| INTERNET: boyd@afsp.b30.ingr.com |  
|-----|
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Date: Thu, 14 Jan 1993 16:01:28 GMT

From: telesoft!garym@uunet.uu.net  
Subject: STS-54 Element Set (013.88)  
To: info-hams@ucsd.edu

These elements for STS-54 are based on NORAD radar data as of orbit 6.  
They come from GSFC and JSC courtesy of John Shalamskas.  
--GaryM

STS-54  
1 22313U 93 3 A 93013.88469891 0.00047883 00000-0 19500-3 0 39  
2 22313 28.4702 152.5811 0021875 185.9105 174.1249 15.84261477 60

Satellite: STS-54  
Catalog number: 22313  
Epoch time: 93013.88469891 (13 JAN 93 21:13:57.99 UTC)  
Element set: GSFC-003  
Inclination: 28.4702 deg  
RA of node: 152.5811 deg Space Shuttle Flight STS-54  
Eccentricity: 0.0021875 Keplerian Elements  
Arg of perigee: 185.9105 deg  
Mean anomaly: 174.1249 deg  
Mean motion: 15.84261477 rev/day Semi-major Axis: 6696.5373 Km  
Decay rate: 0.48E-03 rev/day\*2 Apogee Alt: 332.80 Km  
Epoch rev: 6 Perigee Alt: 303.50 Km

NOTE - This element set is based on NORAD element set # 003.  
The spacecraft has been propagated to the next ascending  
node, and the orbit number has been adjusted to bring it  
into agreement with the NASA numbering convention.

R.A. Parise, Goddard Space Flight Center

G.L.CARMAN

--  
Gary Morris KK6YB Internet: elements-request@telesoft.com  
San Diego, CA, USA Phone: +1 619-457-2700

-----  
Date: 14 Jan 93 14:25:32 GMT  
From: psinntp!gdc!gallaghe@uunet.uu.net  
Subject: Yeasu FT-625 CTCSS Info.  
To: info-hams@ucsd.edu

Has anyone in the past used the FT-625 with tone encoding? Any help in this  
area would greatly appreciated.

Thanks in advance,

Rob - N1CXH

--

```
*****
*                                                                 *
*   Robert Gallagher                                           *
*   email - gallagher@gdc.com                                   *
*   tele: (203) 758-1811 ext. 7565                               *
*                                                                 *
*****
```

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Date: (null)

From: (null)

-----

Date: Thu, 14 Jan 1993 14:30:39 GMT

From: usc!howland.reston.ans.net!spool.mu.edu!sgiblab!sgigate!odin!

chuck.dallas.sgi.com!adams@network.UCSD.EDU

To: info-hams@ucsd.edu

References <1993Jan12.155534.2402@ccsvax.sfasu.edu>,

<1993Jan13.002930.19534@odin.corp.sgi.com>,

<1993Jan13.141229.2416@ccsvax.sfasu.edu>

Subject : Re: Boatanchors of old

WOW! didn't know this group was interested in card tables! how about  
cards. oooops, i digress. wrong newsgroup. ;-)

well remember guys, in 1961 card tables were probably a little more  
sturdy than they are today. it held up ok.

during that nine months i accumulated a shoebox (size 13) full of QSL  
cards. unfortunately, my first xyl threw them out. needless to say  
this resulted in an almost immediate divorce. ;-) education is  
expensive no matter how you get it. (CNA)

73 and bncu, gl and gd dx de k5fo     dit     dit

p.s. wanted - copy of the phillips code book. some OF has got to have this  
classic in literature ;-)

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Date: 14 Jan 93 16:21:39 GMT  
From: naucse!navvax.ucc.nau.edu!cvm@arizona.edu  
To: info-hams@ucsd.edu

References <1993Jan11.175633.22769@samba.oit.unc.edu>, <C0prIE.3so@amdcl2>,  
<1993Jan12.204645.16576@kd4nc.uucp>ona  
Subject : RE: Yaesu FT 5100 Reviews??

In a previous article, n4tii@kd4nc.uucp (John Reed) wrote:

>I have a question about your review of the 5100....  
>  
>On the scan function, when running PL decode, will it stop on a busy channel  
>even if the wrong pl is there, or no pl at all, and just mute the audio?  
>Or will it just skip over it, just like my Kenwood TH-77?  
>  
>I have the Yeasu FT-212RH and when I decode PL on a memory, and I am scanning,  
>if a signal comes in on the same freq. as the decoding channel, the scan will  
>stop yet the audio is muted. (Do you understand this? It's almost confusing  
>me as a write it! 8^ )

I understand what you are saying. My Alinco DR-110T does the same thing. This is one thing I hate about the DR-110T, it makes scanning PL frequencies in a high intermod area useless. The radio just locks on the frequency and you don't know it has unless you look at the display.

Are there any radios (especially 2m) out there that require both carrier and the correct PL to be present to stop on a frequency when scanning a channel with PL decode set? This feature by itself would not solve all the scanning problems, it is just a crutch to help make up for poor intermod rejection. The radio would also need excellent intermod rejection for those frequencies that don't transmit a PL tone.

73

-----  
Chris Michels -- Systems Programmer                   cvm@navvax.ucc.nau.edu  
Northern Arizona University -- Flagstaff, AZ       cvm@navvax.bitnet  
Phone: (602) 523-6495                               N7YIU

-----  
Date: 14 Jan 93 11:27:57 GMT  
From: usc!news.bbn.com!olivea!spool.mu.edu!yale.edu!jvnc.net!newsserver.jvnc.net!  
phage!phage.cshl.org!stellabo@network.UCSD.EDU  
To: info-hams@ucsd.edu

References <root.726881171@qwerty-gw>, <1993Jan13.221026.7540@ncsu.edu>,  
<1993Jan13.221614.7782@ncsu.edu>

Subject : Re: Beginner's Rig

kevind@garfield.catt.ncsu.edu (Kevin J. Dunphy) writes:

>"Oh mighty net-news oracle..."

>What recommendations do you have for a newbie looking for some  
>gear? I just passed the no-code tech tests this weekend, and  
>would like to gain some net-wisdom before I sink mucho bucks into  
>less-than-deserving hardware.

>My personal intention is to get a handheld to work the 2-meter  
>repeaters in town (and out!). Questions:

>What does one look for in a handheld?

>What does one look for in USED equipment?

>Will I regret settling for a single-bander two weeks after  
>I get on the air?

>Do I really need 1500 watts in a handheld?

>:-> :->

>etc.

Just a Tip ... Radio Shack just put their HDX-100 ten meter rig  
on sale for \$199.

-Fred

---

>	====	Fred J. Stellabotte N2JCD	stellabo@cshl.org
>	====	Computer Systems Manager	
>	====	CFIA SEL MEL Commerical Instrument	
>	====		
>	====	Cold Spring Harbor Laboratory	Voice: (516)367-8420
>	====	1 Bungtown Road	Fax: (516)367-8845
>	====	Cold Spring Harbor, New York 11724	

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End of Info-Hams Digest V93 #59

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